

RENE BACHE'S BUDGET.

AUGMENT THE FOOD OUTPUT

DR. WILLET M. HAYS TELLS HOW THE THING
MAY BE DONE.

How an Acre of Land Will Be Made to Yield Twice as
Much Corn or Wheat—To Double the Cow's Yield
of Milk and Butter—What Scientific Breeding
Is Doing for Farm Animals.

Washington, D. C., June 4.—"The scientific breeding of plants is destined in the not distant future to go a long way toward keeping down food prices in this country," said Dr. Willet M. Hays, assistant secretary of agriculture, yesterday. "Were it not for this prospect, we should, with an expectation of 200,000,000 population 50 years from now, have reason to fear a condition of affairs wherein good things to eat would be beyond the reach of most folks."

"Take the case of corn for example. It is our greatest cereal—the American grain crop par excellence. At the present time it yields a little over 25 bushels to the acre. With improved methods, we shall be able, by planting better varieties, to make the output 50 bushels."

"During the past decade the plant breeders have taken up the problem, and already large areas are devoted to experimental work in this line by the federal government, by the states, and even by many counties. One agricultural experiment station, in Illinois, has produced a corn with nearly double the ordinary percentage of oil and 'protein'—the latter being the substance that goes to make muscle and blood. Meanwhile the Minnesota station has originated a variety known as 'Minnesota 13,' which, being very hardy, is helping to push the corn belt northward."

"Again, consider the case of wheat. Our output of this grain, enormous though it is in the aggregate, averages less than 15 bushels to the acre. In England it averages 20 bushels, and in other European countries even higher. Why should this be so? Mainly because our wheats were originally bred for the moist and cool climate of Europe. We are raising the same varieties in a dry and warm climate."

"Cross-Breeding Wheat."
"What we are now starting in to do is to cross-breed the best of these wheats, and obtain a new set of varieties suited to our climate and soil. By this means we shall increase the output to at least 25 bushels an acre. That is to say, we shall get an additional five bushels by breeding, and a further increase of five bushels by better preparation of the soil—especially through rotation of crops, to get more vegetable matter into the soil, and by more intelligent fertilizing."

"The first scientific experiments in wheat breeding, in Minnesota, resulted in the production of new varieties which augmented the yield by 20 percent. Already these improved varieties are being grown over millions of acres. Later efforts on the same line, in

Washington, have produced varieties better than the ordinary by 40 to 50 percent. It is important that every state should breed varieties adapted to its own climate and soils. Many of the states, indeed, are already working on the problem."

"Working on Alfalfa."
"The plant breeders are also working on alfalfa, which is the most valuable of all forage crops, and the greatest producer of money for the farmer. They propose to make it yield, in most parts of the east, as largely as it does in any part of the west. Until recently, the alfalfa cultivated in the United States were suitable only to the region west of the Missouri river. It was I myself who discovered, only a few years ago, the hardy variety known as the 'Grimm,' which has since spread over all the northern country east of the Missouri."

"This variety gets its name from a farmer named Grimm, who came from Bohm, Germany, 60 years ago, and settled near Lake Minnetonka. He brought the seeds of the alfalfa with him; but its value was not discovered until half a century later. It is a great yielder of hay, producing three crops a year. This discovery has led to the importation of other hardy alfalfas, and to the creation of still others, by breeding, which are adapted to various sections."

"Apple Growing."
"Within 10 miles of Grimm's farm, 60 years ago, was the humble home of another settler, Peter Gideon. Peter lived with his family in a log cabin, and was so poor he cut cordwood to exchange for groceries. Having had some experience with apple growing in Maine (whence he came), he decided to obtain from that source half a bushel of apple seeds, and to grow the money for the purpose. His wife objected, urging him to use the \$5 to buy a much-needed coat."

"Gideon showed her a waistcoat and the legs of a pair of trousers, and asked her to sew the latter into the arm holes of the former, to make a coat. When she refused, he did the job himself. Then he got the apple seeds from Maine, and planted them. One of the seeds produced a tree which was probably the most valuable tree ever grown in the world; for from its cuttings have been derived all the orchards of the famous 'wealthy' apples."

"The Apple Problem."
"What we want to do is to work out the apple problem in an equally satisfactory way for all parts of the United States. At the present time our apple crop is very patchy. There are only a few regions in which this greatest of American fruits is successfully produced—in New York, Oregon, Washington, Michigan, and Missouri. We have not adapted varieties to localities, and most of our growers are not up to date in methods of culture and insect control. Such matters have been reduced to a scientific basis in those districts—as, for example, in Oregon—where the industry is pursued on a large scale by associations of producers."

"We want a hardy apple for the far north. We want another kind of apple that will stand the hot climate of the south. We want apples that are suited to every part of the country, so that each locality may have cheap apples. The home orchard needs encouragement. Plant breeders are working on the problem, and important results are already being obtained."

"Grains and Vegetables."
"Undoubtedly, as our population increases, we shall eat more grains and vegetables and less meat. Plant products, you must remember, are always in competition with livestock. Primitive peoples depend chiefly on the flesh of animals for food; but, when a country becomes crowded, the tendency is to eat what comes direct from the soil. Thus in China, which is a very crowded part of the world, cattle and sheep are not raised to any extent for slaughter. The inhabitants cannot afford to feed their plant products to animals, and then to eat the latter—this being always a more expensive mode of deriving sustenance from the soil."

"Relatively speaking, therefore, we shall in the course of time become vegetarian in habit. Because of the competition of plant products, beef animals in our own country have al-



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ready begun to decline in numbers. This, of course, has directly to do with the rise in the price of beef. Sheep, too, have been declining in numbers for a long while past, and hogs are showing the same tendency.

"In order to hold their place (the matter being purely one of economics), against the competition of plant products, our livestock must be improved. Our cows must produce more milk, cheese and butter from an acre of grass and a ton of meal. The American cow averages 125 pounds of butter annually. She ought to produce 250, or even 300 pounds. If she can do as well as that, she will sustain the competition longer, and may even compete with oleomargarine, which has seriously interfered with the increase in the number of cows."

"With this idea in view, the federal and state governments have begun to cooperate with groups of farmers in an effort to create new families of high-yield cows for breeding purposes. Thus there is an excellent prospect that within the next 20 years the output of milk and butter will be greatly augmented, in proportion to the number of cows kept."

"Saving Hogs from Cholera."
"In the meantime, the department of agriculture has discovered a 'serum' which renders hogs immune to the dreaded hog cholera. This will doubtless result in the eradication of the disease, which, inasmuch as it will save the farmers \$20,000,000 per annum, ought to make pork cheaper. The American pig is really a very well-bred animal (not referring, of course, to its manners), especially in relation to requirements for the great corn-raising states. What is most needed is a breed of hogs suited to the new agricultural conditions arising in the south, where green crops and peanuts furnish a large part of the available food."

"Chicken Breeding."
"The trouble with chicken breeding is that efforts hitherto have been directed mainly to fancy points, which have no important relation to economic production. Now, however, this sort of work is beginning to be conducted along proper lines, and the scientists are trying not only to increase the number of eggs laid, and the weight of the individual egg, but also the weight of the meat on the thighs and breast. The pullet of the future will be expected to have more white meat and bigger drumsticks than her predecessor of today."

"The importance of this matter is easily seen when it is considered that the American hen annually produces \$700,000,000 worth of meat and eggs. Her output is exceeded in value only by the corn crop. But I think there is no doubt that within the next half century the annual value of our chicken and egg production will reach a billion and a half."

Rene Bache.

CHILDREN'S DAY AT CHRISTIAN CHURCH

Special Program in Offered for the Services Sunday—Both Morning and Evening Exercises.

The services Sunday at the First Christian church will be of a very unique and interesting character. At 10:45 a combined Sunday school and church service will be held. The program will be as follows:

Organ voluntary.
Hymn, "Holy, Holy, is the Lord."
Invocation.
Hymn, "O Worship the King."
Reading the Sunday school lesson.
Announcements.
Offering.
Solo, "Jesus Savior, Pilot Me." Mrs. Lander. (By request).
Organ voluntary. During the playing of this voluntary the intermediate classes will pass to their classroom, for the study of the lesson.
Sermon by the pastor.
Hymn of invitation.

Communion Service.
Hymn, "I need Thee every hour."
Reading the Scriptures.
Prayers, and distribution of emblems.
Doxology.
Benediction.
In the evening the Sunday school will present the following program:
Organ voluntary.
Hymn, selected. Young people's choir.
Flag drill. Primary department.
Scripture reading. J. N. Hamilton.
Prayer. M. A. Goff.
Song, "Volunteers to the Front."
Young People's choir.
Song, "We are little lilies." Primary department.
Song, "Brothers and Sisters Across the Sea." Primary department.
Recitation. Kendall Anderson.
Recitation. Edward Barnard.
Exercise, "Bright and Shining Lights."
Mr. Moss's class.
March and flag drill, by boys.
Duet, "I must tell it." Zula Robinson and Pauline Eyon.
Exercise, "Childhood." Girls' class.
Exercise, "Into all the world." Misses' class.
Brief address by the pastor.
Offering.
Doxology.

DRILLING FOR ARTESIAN WATER AT SAN SIMON

San Simon, Ariz., June 4.—Interest is being manifested in the efforts of the San Simon Improvement company to develop artesian water at San Simon. It has a standard oil well rig in daily operation and will rush work until a good strong flow of water is found, which if judged by previous operations in the valley, is assured at a depth not to exceed 1000 feet.

What Do You Think About These Blind People That Have Been Restored to Sight by Osteopathy?

Do You Think They Only Imagined They Couldn't See and That the Sixteen Specialists and Entire Medical Association of Texas that Pronounced Them Hopeless Were Mistaken or Just Lied About It?

Do You Think That if They Had Just Believed That They Could See That They Could Have Seen?

Or Don't you believe that when we loosened the vertebrae where the nerves went to the eyes and they saw, that that was what did it just the same as when we loosen the nerves to the kidneys in Bright's disease and they are restored and to lungs and they are restored, and to livers and stomachs, appendix, and in cases of paralysis, Typhoid fever, Pneumonia, Rheumatism, Deafness and every disease you can think of, and they are restored.

For all you need to do is loosen the nerve and it will force circulation in the part, for the blood made every organ and it can restore it again. "For the life of all flesh is in the blood." God said it and God never lied.



Largest Run in Its History.



Boy who had been to 16 specialists. Blind for 5 years. Resides 1305 Wyoming St., El Paso, Texas.



Man who has been blind for one year. 402 S. Stanton St., El Paso, Texas.



Woman who had been blind for several months. 519 South Stanton St., El Paso, Texas.



Blind girl, six years. Lakota Flats, on Mesa Ave., El Paso, Texas.

Blind girl who had been pronounced hopeless by entire Medical Association of Texas, when they met here in El Paso. This was, of course, hopeless to them, for they did not know how to push these vertebrae back so as to loosen the nerves which were deadened to the eyes, and it all goes to show that they do not know how to free the nerves to the lungs in a case of pneumonia or consumption, and they have to have the nerves freed to the lungs just the same as these blind people did to their eyes.

It is the same in heart diseases, which are being cured every day.

They are congested at the spine and heart weakened by it.

Also, they do not know how to free the ribs in Asthma so the air can be expelled from the lungs and cause a vacuum to draw fresh air in.

That is why the Still Osteopath Infirmary is curing them every day, while drug doctors are helpless.

In Neuralgia and all kinds of headaches we loosen the nerve so it can cause circulation of blood and feed the nerve and you are well again.

Droves of them have been cured here in El Paso of stomach troubles and liver troubles, and indigestion.

Free the nerves and the circulation starts up and you are yourself again.

Rheumatism is only a congested nerve to some of the muscles.

I have never seen a case of any kind of rheumatism that was incurable by Osteopathy, and we have more cases, I

suppose, than all the rest of the city.

In BRIGHT'S DISEASE, we free the nerves to kidneys and that is why, when we restore them to normal, they carry all the waste out of the system, and you are well again, and because the nerve was pressed on, and weakened had more poison to carry off than it was able to is why you cannot cure by putting in more poison and whipping up the already overworked nerves.

—FOR IT ALL GOES TO SHOW YOU CANNOT POISON A MAN AND CURE HIM OF ANY KIND OF DISEASE.

FOR NO AMOUNT OF POISONS WILL PUSH ONE OF THESE VERTEBRAE BACK IN PLACE.

It may stimulate you for the time, but will make your spine coldest worse, and you will be worse the next time the stagnant blood accumulates in that organ.

DON'T SAY I DON'T SEE HOW AN OSTEOPATH COULD CURE ME.

JUST COME OVER AND SEE HOW WE DO IT.

WE'RE FROM MISSOURI, AND WE'LL SHOW YOU JUST HOW WE CURED SIX THOUSAND CASES AND ONLY LOST SIX, WHILE THE PROFESSIONAL POISONERS LAID OUT SIX THOUSAND IN THE SAME LENGTH OF TIME.

FEEL YOUR OWN SPINE—THE TROUBLE IS THERE.

You can have no disease without the accumulating of stagnant blood, which is caused by the nerve deadening at the spine.

DR. A. T. STILL, OSTEOPATHIC INFIRMARY.

DR. IRA W. COLLINS, PHYSICIAN IN CHIEF.

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